

ABSTRACT OF THE DISCLOSURE

To provide an image forming apparatus which not only transmits optical signals of image information and optical signal for synchronizing from the video controller to the print engine using a single optical fiber and without using a special synchronization optical fiber, but also transmits a synchronizing optical signal reflected by the SOS mirror on the print engine side simultaneously in the reverse path to the video controller, such that the number of lines are reduced in the layout, external noise and emitted noise are reduced, and the interior of the image forming apparatus is consolidated making handling and assembly easier. In an image forming apparatus provided with a transmitting means for transmitting optical signals over an optical fiber, and an optical scanning means for scanning a photosensitive drum via a beam emitted from the optical fiber and detecting the beam at a detection position disposed outside the image region, and synchronizing the main scan direction based on the detected beam.

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